



U.S. Department of Energy
Office of River Protection
P.O. Box 450, MSIN H6-60
Richland, Washington 99352

0073772

AUG 20 2007

07-ESQ-136

Ms. Jane A. Hedges, Program Manager
Nuclear Waste Program
Washington State
Department of Ecology
3100 Port of Benton Blvd.
Richland, Washington 99354

RECEIVED
AUG 22 2007

EDMC

Dear Ms. Hedges:

SUBMITTAL OF HANFORD FACILITY RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) PERMIT MODIFICATION NOTIFICATION FORM 24590-PTF-PCN-ENV-07-005

Reference: WA7890008967, "Dangerous Waste Portion of the Hanford Facility Resource Conservation and Recovery Act Permit for the Treatment, Storage, and Disposal of Dangerous Waste, Part III, Operating Unit 10, 'Waste Treatment and Immobilization Plant.'"

This letter submits the Hanford Facility RCRA Permit Modification Notification Form 24590-PTF-PCN-ENV-07-005 (Attachment 1) for the Washington State Department of Ecology (Ecology) review and approval. The form describes a requested Class 1 modification to the Reference related to the Pretreatment Facility (PTF) at the Waste Treatment and Immobilization Plant. A Bechtel National, Inc. certification statement is provided in Attachment 2.

Permit Modification Notification Form 24590-PTF-PCN-ENV-07-005 updates the PTF General Arrangement Plan at the 77' elevation found in Appendix 8.4 of the Reference and includes an updated room and equipment list for elevation 77'. A one-to-one correlation between permit versions and source drawings does not exist. Potential permit affecting changes between the current and previous revisions of the source drawings on the permit change notice form are, briefly described in a summary format.

This modification request was discussed in advance with your staff.

Ms. Jane A. Hedges
07-ESQ-136

-2-

AUG 20 2007

If you have any questions, please contact me, or your staff may contact Gae M. Neath, Office of Environmental Safety and Quality, (509) 376-7828.

Sincerely,



Shirley J. Olinger, Acting Manager
Office of River Protection

ESQ:GMN

Attachments: (2)

cc w/attachs:

Administrative Record
BNI Correspondence
Environmental Portal, LMSI

cc electronic:

J. Brown, BNI
W. S. Elkins, BNI
B. G. Erlandson, BNI
P. A. Fisher, BNI
J. S. Hill, BNI
S. Murdock, BNI
P. Peistrup, BNI
B. Becker-Khaleel, Ecology
R. K. Biyani, Ecology
E. A. Fredenburg, Ecology
B. Speer, Ecology
S. A. Thompson, FHI
A. C. McKarns, RL
D. J. Sommer, SCS

cc w/o attachs:

D. A. Klein, BNI
J. Cox, CTUIR
S. Harris, CTUIR
L. Cusack, Ecology
S. L. Dahl, Ecology
G. P. Davis, Ecology
G. Bohnie, NPT
K. Niles, Oregon Energy
R. Jim, YN

Attachment 1
07-ESQ-136

Hanford Facility RCRA Permit Modification Notification
Form 24590-PTF-PCN-ENV-07-005

Quarter Ending September 30,
2007

24590-PTF-PCN-ENV-07-005

Hanford Facility RCRA Permit Modification Notification Form**Part III, Operating Unit 10****Waste Treatment and Immobilization Plant**

Index

Page 2 of 3: Hanford Facility RCRA Permit, Part III, Operating Unit 10, Waste Treatment and Immobilization Plant
Update Pretreatment Facility General Arrangement Plan at the 77' elevation in Appendix 8.4 of the
Dangerous Waste Permit.

Submitted by Co-Operator:

Reviewed by ORP Program Office:

D. A. Klein 8/3/07
D. A. Klein Date

S. J. Olinger 8/20/07
S. J. Olinger Date

Quarter Ending September 30,
2007

24590-PTF-PCN-ENV-07-005

Hanford Facility RCRA Permit Modification Notification Form

Unit:

Waste Treatment and Immobilization Plant

Permit Part & Chapter:

Part III, Operating Unit 10

Description of Modification:

The purpose of this Class 1 prime modification is to update Pretreatment Facility General Arrangement Plan at the 77' elevation in Appendix 8.4 of the Dangerous Waste Permit. The following General Arrangement Drawing is submitted to replace the permitted General Arrangement Drawing currently in Appendix 8.4.

Appendix 8.4

Replace:	24590-PTF-P1-P01T-P0004, Rev. 0	With:	24590-PTF-P1-P01T-00004, Rev. 3
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This modification requests Ecology approval and incorporation into the permit the specific changes to the General Arrangement Drawing that are identified by the Revision 2 and 3 notes, clouds, and revision triangles shown on the General Arrangement Drawings that have been issued since the last revision of the permitted version. Revisions are the result of ongoing design. The following is a summary of the significant changes on the attached drawing:

- Relocated equipment within and between rooms
- Added new rooms and adjusted the boundaries of rooms
- Added, adjusted, and relocated racks
- Added and removed holds
- Added component identification numbers for skids relative to equipment
- Various changes to the depiction of equipment/structure
- Identification of additional information as a result of going from permit drawing to the engineering design drawing

An updated Pretreatment Facility room and equipment list for the 77' elevation is also included.

The following is a list of outstanding change documents that have not been incorporated into this modification:
None

WAC 173-303-830 Modification Class: ^{1 2}	Class 1	Class ¹ 1	Class 2	Class 3
Please mark the Modification Class:		X		

Enter Relevant WAC 173-303-830, Appendix I Modification citation number: N/A

Enter wording of WAC 173-303-830, Appendix I Modification citation:

In accordance with WAC 173-303-830(4)(d)(i), this modification notification is requested to be reviewed and approved as a Class ¹1 modification. WAC 173-303-830(4)(d)(ii)(A) states, "Class 1 modifications apply to minor changes that keep the permit current with routine changes to facility or its operation. These changes do not substantially alter the permit conditions or reduce the capacity of the facility to protect human health or the environment. In the case of Class 1 modifications, the director may require prior approval."

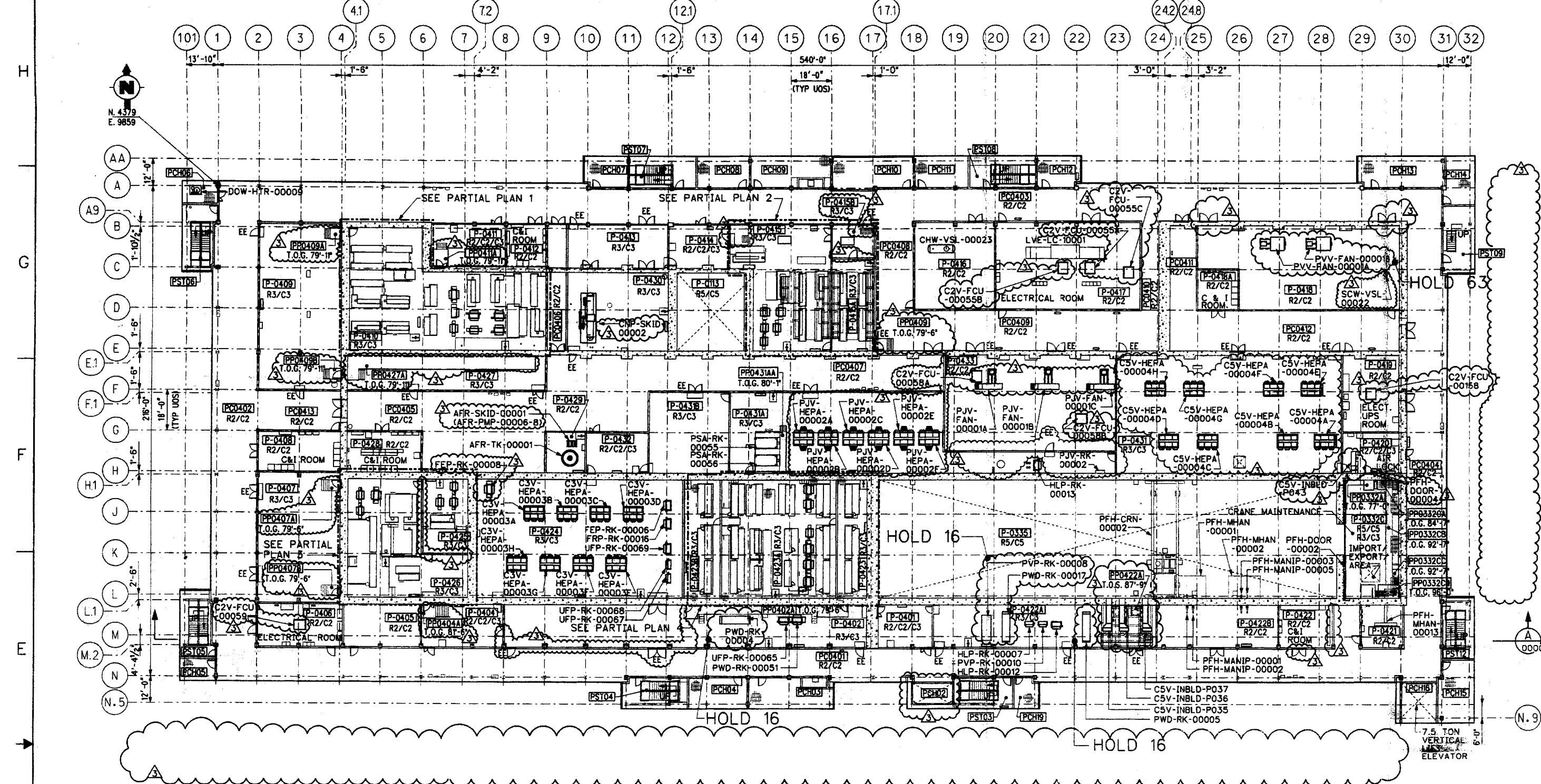
¹ Class 1 modifications requiring prior Agency approval.

² If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to a Class ¹1, if applicable.

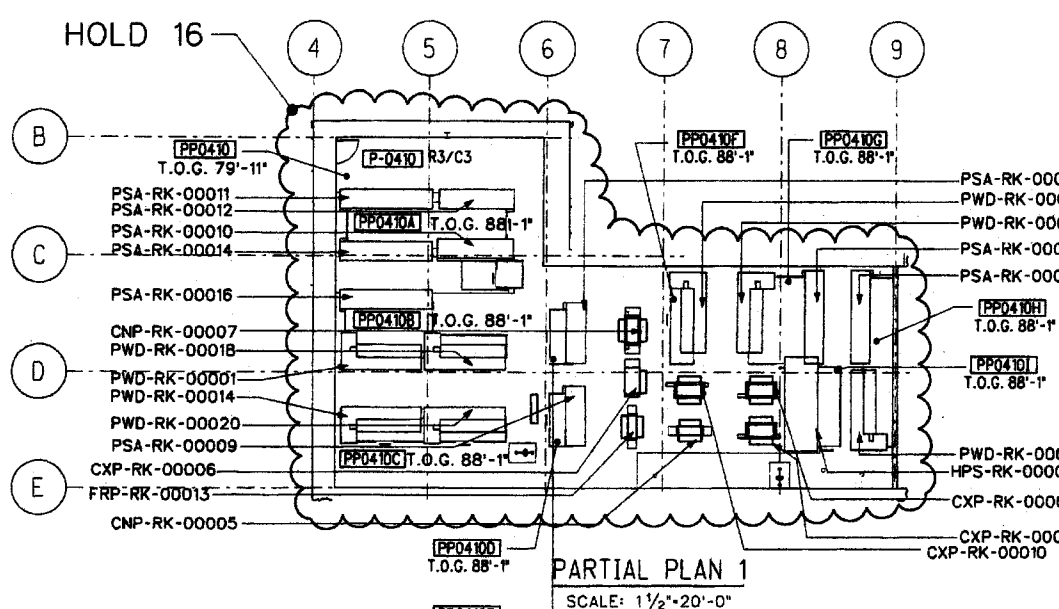
Quarter Ending September 30,
2007

24590-PTF-PCN-ENV-07-005

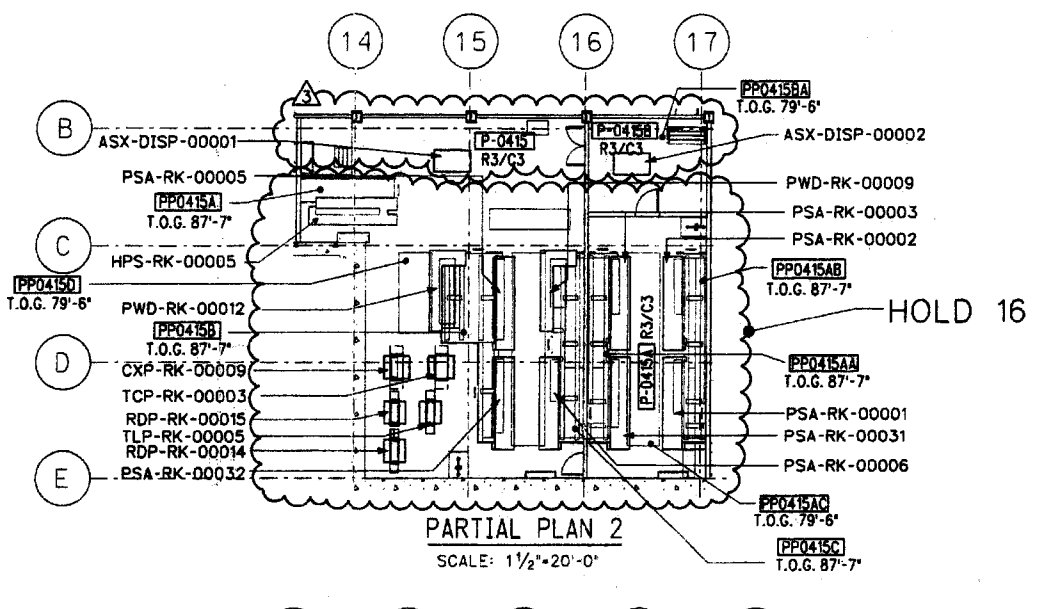
<p>Modification Approved: <input type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial)</p> <p><u>Reason for denial:</u></p>	<p>Reviewed by Ecology:</p> <hr/> <p>B. Becker-Khaleel Date</p>
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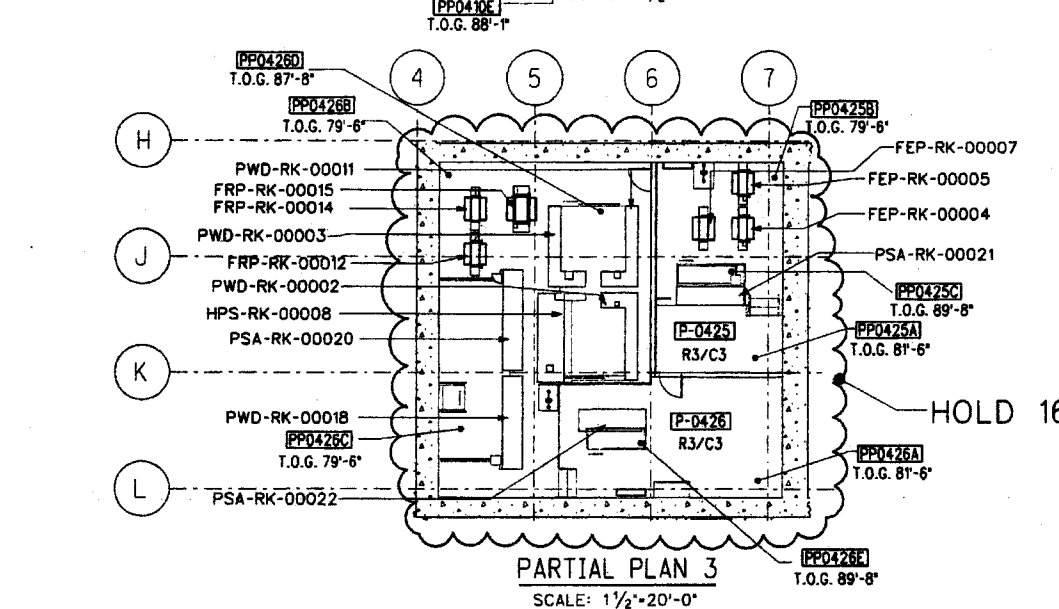
PLAN AT EL. 77'-0"



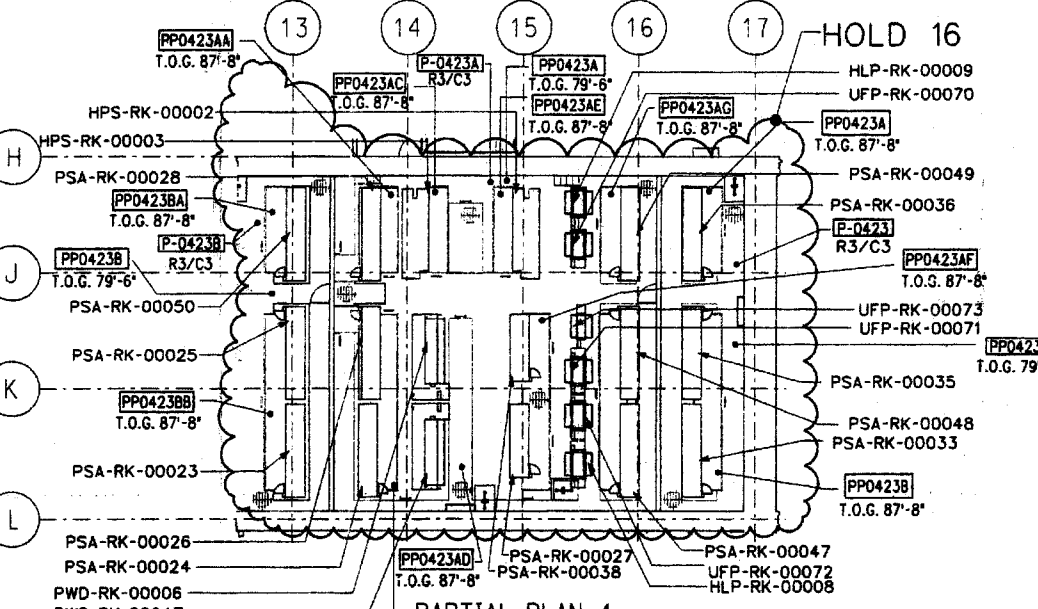
PARTIAL PLAN 1



PARTIAL PLAN 2



PARTIAL PLAN 3



PARTIAL PLAN 4

GENERAL NOTES:

1. FOR REFERENCE, SEE PLOT PLAN DRAWING 24590-B0F-P1-50-00001.
2. ALL OPERATING AREAS ARE DESIGNATED R2/C2 UNLESS NOTED OTHERWISE.
3. ALL SUB-CHANGE ROOMS ARE DESIGNATED R2/C2/C3 UNLESS NOTED OTHERWISE.
4. FOR RADIOLOGICAL CLASSIFICATION REFER TO DOCUMENT 24590-WTP-GPP-SRAD-002.
5. REFER TO DWG. NO. 24590-B0F-C2-C121-00002 FOR CONVERSIONS ROOM PTF FACILITY TO SITE ELEVATIONS. PTF FACILITY ELEVATION 0'-0" EQUALS SITE ELEVATION 67'-0" ABOVE SEA LEVEL.
6. FOR ELECTRICAL AND C&I EQUIPMENT TAG AND LOCATION REFER TO INDEX KEY PLAN DRAWING NO. 24590-PTF-1(LATER).
7. FOR ROOM NUMBERS AND DESCRIPTION REFER TO DRAWING NO. 24590-PTF-P1-P23T-00001.
8. CONTENTS OF THIS DOCUMENT ARE DANGEROUS WASTE PERMIT AFFECTING.
9. REFER TO PRETREATMENT FACILITY/ANNEX EQUIPMENT LOCATION INDEX KEY PLAN DWG. NO. 24590-PTF-P1-P23T-00001 LISTING AREA DWGS THAT PROVIDE A MORE DETAILED IDENTIFICATION OF EQUIPMENT.
10. DELETED.

LEGEND:

- CA CONTROLLED ACCESS
- EE EMERGENCY EXIT
- FDR FIRE DOOR
- TOG TOP OF GRATING
- P- ROOMS/CELLS/TUNNELS
- PA- ANNEX NUMBERING
- PC- CORRIDORS & CONNECTING VESTIBULES
- CH- CHASIS
- PM- MEZZANINES
- ST- STAIRS
- EQUIPMENT REMOVAL/LAY DOWN AREA
- OPENING
- CONCRETE
- EMERGENCY SHOWER/EYEWASH (PLAN VIEW)
- EMERGENCY SHOWER/EYEWASH (ELEVATION VIEW)
- EXTERIOR SIDING
- GRATING
- GYPSUM WALLBOARD

HOLDS:

- 16. PENDING FURTHER RACK DESIGN DEVELOPMENT.
- 44. DELETED
- 45. DELETED
- 46. DELETED
- 47. DELETED
- 63. PENDING ADEQUATE MAINTENANCE ACCESS CONFIGURATION.

REVISION 3 NOTE:

1. INCORPORATED CHANGES 24590-PTF-P1-P01T-00002, 24590-PTF-P1-P01T-00008, 24590-PTF-P1-P01T-00009, 24590-PTF-P1-P01T-00010, AND 24590-PTF-P1-P01T-00011. UPDATED ADR REVISION NUMBER AND ADDED SAFETY SCREENING REQUIREMENT.
2. DELETED SECTIONS B THRU R AND PERSONNEL ELEVATOR IN PCH02; DELETED HOLDS 44, 45, 46 & 47.
3. RELOCATED DOOR IN ROOM P-0411; FEP-RK-00008 FROM ROOM P-0425 TO ROOM P-0424; ADJUSTED RACKS IN ROOMS P-0410, P-0425 AND P-0426; RELOCATED DOOR IN CORRIDOR P-0409; RELOCATED WEST WALL OF ROOM P-0433 TO THE WEST; CSV-INBLD-P033 AND DOOR ON WEST WALL IN ROOM P-0420.
4. ADDED C2V-FCU-00058 TO ROOM P-0419; C2V-FCU-00055A, B & C TO ROOM P-0417; C2V-FCU-00059 TO ROOM P-0406; PLATFORM P-0425A & B TO ROOM P-0425; PLATFORM P-0426A & B TO ROOM P-0426; ASX-DISP-00001 TO ROOM P-0415 AND ASX-DISP-00002 TO ROOM P-0416; CNP-SKID-00002 TO ROOM P-0430; AFR-SKID-00001 TO ROOM P-0429; PP0427A TO ROOM P-0427; C2V-FCU-00058 TO ROOM P-0433; ADDED HOLDS 16 & 63; ADDED PP0409A & B TO ROOM P-0409; PP0407A & B TO ROOM P-0407; PP0404A TO ROOM P-0404; TO ROOM P-0411; STAIRS IN ROOM P-0415; PP0409 TO PP0409; ADDED WALL & DOOR TO P-0415A TO MAKE NEW ROOM P-0415B; ADDED STAIRS IN ROOM P-0415B; C2V-FCU-00058A TO ROOM P-0433; SCW-VSL-00022 IN ROOM P-0418; ADDED PP0415D TO ROOM P-0415; PP0415A TO P-0415B; PP0415C TO P-0415A.

REV	DESCRIPTION	REV	DATE
3	SEE REVISION 3 NOTE AT DWG. ZONE C/2	1	1/1/07
2	SEE REVISION 2 NOTE AT DWG. ZONE B/2	1	1/1/07
0	-DCA-HV-02-002 REV 0, 24590-PTF-DCA-HV-02	1	1/1/07
0	-020 REV 0, 24590-PTF-DCA-PR-03-004 REV 0, 24590-PTF-DCA-PR-03-004 REV 0, 24590-PTF-DCA-PR-03-004 REV 0	1	1/1/07

ORIGINATOR	CHECKER	APPROVER	REVIEWER
F. ALMEIDA	K. SMITH	R. VOTE	S. SKILES

PROJECT No.	24590
SITE	HANFORD
AREA	200E
BUILDING No.	10
DATE	06/03/03
REVISION	06/03/03
REVISION	06/03/03

REVISION HISTORY
1. RIVER PROTECTION PROJECT
2. WASTE TREATMENT PLANT
3. 2435 STEVENS CENTER PLACE
4. RICHLAND, WA 99354
5. CONTRACT No. DE-AC22-GRV1438
6. SCALE: 1/2"=20'-0"
7. 24590-PTF-P1-P01T-00004
8. REV 3

**Pretreatment Facility
Room and Equipment List for El. 77'**

Room	Room Description	Equipment Number	Equipment Description
MISCELLANEOUS UNITS			
P-0418	Vessel Vent Exhaust Fan Room	PVV-FAN-00001A	PVV Exhaust Fan
		PVV-FAN-00001B	PVV Exhaust Fan
P-0430	CNP Evaporator Condenser Room	CNP-HX-00002	Cesium Evaporator Primary Condenser (located on CNP-SKID-00002)
		CNP-HX-00003	Cesium Evaporator Intercondenser (located on CNP-SKID-00002)
		CNP-HX-00004	Cesium Evaporator Aftercondenser (located on CNP-SKID-00002)
P-0431A	PJV Secondary HEPA Filter Room	PJV-HEPA-00002A	PJV Secondary Exhaust HEPA Filter
		PJV-HEPA-00002B	PJV Secondary Exhaust HEPA Filter
		PJV-HEPA-00002C	PJV Secondary Exhaust HEPA Filter
		PJV-HEPA-00002D	PJV Secondary Exhaust HEPA Filter
		PJV-HEPA-00002E	PJV Secondary Exhaust HEPA Filter
		PJV-HEPA-00002F	PJV Secondary Exhaust HEPA Filter
P-0433	PJV Fan Room	PJV-FAN-00001A	PJV Exhaust Fan
		PJV-FAN-00001B	PJV Exhaust Fan
		PJV-FAN-00001C	PJV Exhaust Fan

**Pretreatment Facility
Room and Equipment List for El. 77'**

Room	Room Description	Equipment Number	Equipment Description
TANK AND MISCELLANEOUS UNIT ANCILLARY EQUIPMENT			
P-0113	Reserved Space (TBD)	N/A	Does not contain any regulated tanks or MTUs, but does contain regulated ancillary equipment (valves, piping, etc.)
P-0335	Filter Cave	N/A	Does not contain any regulated tanks or MTUs, but does contain regulated ancillary equipment (valves, piping, etc.)
P-0402	Rack Room	N/A	Does not contain any regulated tanks or MTUs, but does contain regulated ancillary equipment (valves, piping, etc.)
P-0407	Process Area	N/A	Does not contain any regulated tanks or MTUs, but does contain regulated ancillary equipment (valves, piping, etc.)
P-0410	Rack Room	N/A	Does not contain any regulated tanks or MTUs, but does contain regulated ancillary equipment (valves, piping, etc.)
P-0411	Sub-Change Room	N/A	Does not contain any regulated tanks or MTUs, but does contain regulated ancillary equipment (valves, piping, etc.)
P-0415	Rack Room	N/A	Does not contain any regulated tanks or MTUs, but does contain regulated ancillary equipment (valves, piping, etc.)
P-0415A	Rack Room	N/A	Does not contain any regulated tanks or MTUs, but does contain regulated ancillary equipment (valves, piping, etc.)
P-0422A	Inbleed Room	N/A	Does not contain any regulated tanks or MTUs, but does contain regulated ancillary equipment (valves, piping, etc.)
P-0423	Rack Room	N/A	Does not contain any regulated tanks or MTUs, but does contain regulated ancillary equipment (valves, piping, etc.)
P-0426	Rack Room	N/A	Does not contain any regulated tanks or MTUs, but does contain regulated ancillary equipment (valves, piping, etc.)
P-0430	CNP Evaporator Condenser Room	CNP-EJCTR-00010A	2nd Stage Primary Vacuum Ejector (located on CNP-SKID-00002)
		CNP-EJCTR-00010B	2nd Stage Secondary Vacuum Ejector (located on CNP-SKID-00002)
		CNP-PMP-00002	Process Condensate Return Pump (located on CNP-SKID-00002)

**Pretreatment Facility
Room and Equipment List for El. 77'**

Room	Room Description	Equipment Number	Equipment Description
CONTAINMENT BUILDINGS			
P-0431A	PJV Secondary HEPA Filter Room	N/A	Contains Permitted Equipment Identified Above


Attachment 2
07-ESQ-136

Bechtel National, Inc. Certification Statement

Bechtel National, Inc. Certification

The following certification statement is provided consistent with Contract No. DE-AC27-01RV14136, Section H.26, Environmental Permits, paragraph (g) for the submittal of the Hanford Facility Resource Conservation and Recovery Act Permit Modification Notification Form 24590-PTF-PCN-ENV-07-005.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.


W. S. Elkins
Project Director

6-AUG-2007
Date